

**WEST**

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L15: Entry 30 of 33

File: USPT

Aug 18, 1998

US-PAT-NO: 5796952

DOCUMENT-IDENTIFIER: US 5796952 A

TITLE: Method and apparatus for tracking client interaction with a network resource and creating client profiles and resource database

DATE-ISSUED: August 18, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Owen	New York	NY	N/A	N/A
Jain; Vidyut	Brooklyn	NY	N/A	N/A

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Dot Com Development, Inc.	New York	NY	N/A	N/A	02

APPL-NO: 8/ 821534

DATE FILED: March 21, 1997

INT-CL: [6] G06F 13/00

US-CL-ISSUED: 395/200.54

US-CL-CURRENT: 709/224

FIELD-OF-SEARCH: 364/DIG.1MSFile, 364/DIG.2MSFile, 380/4, 395/200.3, 395/200.31, 395/200.32, 395/200.33, 395/200.54, 395/280, 395/381, 395/670, 395/680, 395/712

## REF-CITED:

## U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4977594</u>	December 1990	Shear	380/4
<input type="checkbox"/>	<u>5638443</u>	June 1997	Stefik et al.	380/4
<input type="checkbox"/>	<u>5675510</u>	October 1997	Coffey et al.	364/514A
<input type="checkbox"/>	<u>5682525</u>	October 1997	Bouve et al.	395/615
<input type="checkbox"/>	<u>5706502</u>	January 1998	Foley et al.	395/682
<input type="checkbox"/>	<u>5708780</u>	January 1998	Levergood et al.	395/200.12
<input type="checkbox"/>	<u>5710918</u>	January 1998	Lagarde et al.	395/680
<input type="checkbox"/>	<u>5715453</u>	February 1998	Stewart	395/615

## OTHER PUBLICATIONS

S. Gundavaram, CGI Programming on the World Wide Web (O'Reilley &amp; Assoc., Inc.), pp. 202-204.

G. Cornell and S. Horstmann, Core Java (The Sunsoft Press), pp. 562-579.

ART-UNIT: 274

PRIMARY-EXAMINER: Harrell; Robert B.

ATTY-AGENT-FIRM: Adams & Wilks

ABSTRACT:

A method for monitoring client interaction with a resource downloaded from a server in a computer network includes the steps of using a client to specify an address of a resource located on a first server, downloading a file corresponding to the resource from the first server in response to specification of the address, using the client to specify an address of a first executable program located on a second server, the address of the first executable program being embedded in the file downloaded from the first server, the first executable program including a software timer for monitoring the amount of time the client spends interacting with and displaying the file downloaded from the first server, downloading the first executable program from the second server to run on the client so as to determine the amount of time the client interacts with the file downloaded from the first server, using a server to acquire client identifying indicia from the client, and uploading the amount of time determined by the first executable program to a third server. The first executable program may also monitor time, keyboard events, mouse events, and the like, in order to track choices and selections made by a user in the file, and may execute upon the occurrence of a predetermined event, as well as monitoring or determining the amount of information downloaded by the client. The monitored information and client identifying indicia is stored on a database in a server for use in analysis and for automatically serving out files assembled according to user interests and preferences.

71 Claims, 7 Drawing figures

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A computer, e.g. a server or computer operated by a network provider sends one or more requesting computers (clients) a most likely predicted-to-be selected (predicted) page of information by determining a preference factor for this page based on one or more pages that are requested by the client. This page is added to a local cache of predicted-to-be-selected pages in the client. Once the predicted-to-be selected page is in the cache, the client can update the appearance of the link (i.e. by changing the color or otherwise changing the appearance of the link indicator) to indicate to the user that the page represented by that link is available in the local cache.

26 Claims, 11 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draws Desc	Image
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☐ 2. Document ID: US 5832231 A

L16: Entry 2 of 5

File: USPT

Nov 3, 1998

US-PAT-NO: 5832231

DOCUMENT-IDENTIFIER: US 5832231 A

TITLE: Method and system for preloading interactive multimedia applications

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raman; Prabhu	Broomfield	CO	N/A	N/A
Welter; Peter J.	Boulder	CO	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
U S WEST, Inc.	Englewood	CO	N/A	N/A	02

APPL-NO: 8/ 915188

DATE FILED: August 20, 1997

PARENT-CASE:

This is a continuation of application Ser. No. 08/372,152 filed on Jan. 13, 1995, abandoned.

INT-CL: [6] G06F 13/38, G06F 15/17

US-CL-ISSUED: 395/200.64; 395/200.48, 395/200.61, 345/327

US-CL-CURRENT: 709/234; 345/327, 709/218, 709/231

FIELD-OF-SEARCH: 395/200.01, 395/200.05, 395/200.06, 395/200.09, 395/200.17, 395/464, 395/467, 395/200.3, 395/200.48, 395/200.64, 395/200.61, 345/327, 711/137, 711/140, 711/204

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5289581</u>	February 1994	Berenguel et al.	395/275
<u>5305389</u>	April 1994	Palmer	382/1
<u>5317727</u>	May 1994	Tsuchida et al.	395/600
<u>5361391</u>	November 1994	Westberg	395/425
<u>5452447</u>	September 1995	Nelson et al.	395/650
<u>5515518</u>	May 1996	Stiles et al.	395/375
<u>5537546</u>	July 1996	Sauter	395/200.01
<u>5551001</u>	August 1996	Cohen et al.	395/449
<u>5553254</u>	September 1996	Berstis et al.	395/375
<u>5557767</u>	September 1996	Sukegawa	395/440
<u>5566324</u>	October 1996	Kass	395/487

ART-UNIT: 276

PRIMARY-EXAMINER: Rinehart; Mark H.

ATTY-AGENT-FIRM: Brooks &amp; Kushman P C

## ABSTRACT:

A method is disclosed for preloading prefetch data of a multimedia application at a client station in an interactive network. The method begins with the step of transmitting a first signal from a server to the client station representing a composite description. The method next includes the step of storing the composite description in the client memory. The client station then identifies prefetch data based on the composite description. The client station then transmits a signal to the server requesting the identified prefetch data. Finally, the server transmits the prefetch data to the client station where it is stored. A system is also disclosed for implementing the steps of the method.

8 Claims, 5 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5802292 A

L16: Entry 3 of 5

File: USPT

Sep 1, 1998

US-PAT-NO: 5802292

DOCUMENT-IDENTIFIER: US 5802292 A

TITLE: Method for predictive prefetching of information over a communications network

DATE-ISSUED: September 1, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mogul; Jeffrey Clifford	Menlo Park	CA	N/A	N/A

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Digital Equipment Corporation	N/A	N/A	N/A	N/A	02

APPL-NO: 8/ 430992

DATE FILED: April 28, 1995

INT-CL: [6] G06F 13/00

US-CL-ISSUED: 395/200.33; 395/200.49

US-CL-CURRENT: 709/203; 709/219

FIELD-OF-SEARCH: 395/200.03, 395/200.33, 395/200.49, 395/200.47, 395/200.46

REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4885778</u>	December 1989	Weiss	380/48
<u>5134563</u>	July 1992	Tayler et al.	395/250
<u>5287487</u>	February 1994	Priem et al.	395/425
<u>5305389</u>	April 1994	Palmer	382/1
<u>5485609</u>	January 1996	Vitter et al.	395/600
<u>5553276</u>	September 1996	Dean	395/550
<u>5566315</u>	October 1996	Milillo et al.	395/440

## OTHER PUBLICATIONS

J. Rice, "Interactive Mail Access Protocol-Version 3", Network Working Group, RFC 1203, Feb. 1991, pp. 1-49.

ART-UNIT: 276

PRIMARY-EXAMINER: Geckil; Mehmet B.

ATTY-AGENT-FIRM: Hudgens; Ronald C.

## ABSTRACT:

A method for predictive prefetching of objects over a computer network including the steps of providing a client computer system, providing a server computer system, the server computer system having a memory, a network link to the client computer system, the network link also providing connection of the server computer system to the computer network, requesting from the server computer system by the client computer system a retrieval of a plurality of objects, retrieving the plurality of objects by the server system, storing the retrieval and an identity of the client computer system in the memory of the server computer system, sending the plurality of objects from the server computer system to the client computer system over the network link, predicting in the server computer system a plurality of subsequent retrieval requests from the client computer system according to a predetermined criteria, sending the prediction to the client computer system, and prefetching by the client computer system an object based on the prediction and other information. With such an arrangement, an object may be prefetched before a user actually requests it. This makes the retrieval latency appear to be zero when a user requests a prefetched object.

7 Claims, 2 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw	Dese	Image
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☐ 4. Document ID: US 5727129 A

L16: Entry 4 of 5

File: USPT

Mar 10, 1998

US-PAT-NO: 5727129

DOCUMENT-IDENTIFIER: US 5727129 A

TITLE: Network system for profiling and actively facilitating user activities

DATE-ISSUED: March 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barrett; Robert Carl	San Jose	CA	N/A	N/A
Kellem; Daniel Clark	San Jose	CA	N/A	N/A
Maglio; Paul Philip	Santa Cruz	CA	N/A	N/A

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02

APPL-NO: 8/ 659100

DATE FILED: June 4, 1996

INT-CL: [6] G06F 3/00

US-CL-ISSUED: 395/12; 395/357, 395/353, 395/200.09

US-CL-CURRENT: 706/10; 345/353, 345/357, 704/270.1, 706/21, 709/217, 709/224, 709/228

FIELD-OF-SEARCH: 395/12, 395/1, 395/10, 395/326-358, 395/200.01, 395/200.02, 395/200.11, 395/200.08, 395/200.09

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4931950</u>	June 1990	Isle et al.	395/12 X
<u>5103498</u>	April 1992	Lanier et al.	395/12 X
<u>5204947</u>	April 1993	Bernstein et al.	395/157
<u>5208745</u>	May 1993	Quentin et al.	395/12 X
<u>5239617</u>	August 1993	Gardner et al.	395/12
<u>5297249</u>	March 1994	Bernstein et al.	395/156
<u>5333237</u>	July 1994	Stefanopoulos et al.	395/12
<u>5355472</u>	October 1994	Lewis	395/600
<u>5390281</u>	February 1995	Luciw et al.	395/12
<u>5506937</u>	April 1996	Ford et al.	395/12
<u>5560011</u>	September 1996	Uyama	395/12 X

## OTHER PUBLICATIONS

O'Leary, "AI and Navigation on the Internet and Intranet", IEEE Expert, pp. 8-10, Apr. 1996.

Chang et al., "Intelligent Database Retrieval By Visual Reasoning", IEEE, pp. 459-464, 1990.

Passani et al., "Learning from Hotlists and Coldlists: Towards a WWW information Filtering and Seeking Agent", IEEE, pp. 492-495, 1995.

Story et al., "The RightPages Image-Based Electronic Library for Altering and Browsing", IEEE, pp. 17-26, 1992.

M. Balabanovic & Y. Shoham, Learning Information Retrieval Agents: Experiments with Automated Web Browsing, Dept. of Computer Science, Stanford Univ., California pp. 13-17 (marko@cs.stanford.edu).

R. Armstrong, D. Freitag, T. Joachims, & T. Mitchell, WebWatcher: A Learning Apprentice for the World Wide Web, School of Computer Science, Carnegie Mellon Univ. 1/20/95, pp. 6-12. AAAI Spring Symposium, Mar. 27-29, 1995. Stanford Univ. Info Gathering for Heterogeneous, Distributed Environment.

ART-UNIT: 245

PRIMARY-EXAMINER: Breene; John E.

ATTY-AGENT-FIRM: Pintner; James C.

## ABSTRACT:

A system and method are provided for use with an communication and information

network, such at the Internet World Wide Web, for assisting a user in accessing information stored at remote network sites based on the user's past history of network usage. An archive is maintained of remote sites accessed and instances in which the same remote sites are accessed in sequence. Statistics regarding information such as the number of time a site has been accessed, and the times a given set of sites have been accessed in sequence, are maintained. This information may be displayed upon command. Based on this information, information items are identified which the user is predicted to be likely to want to access. This information is pre-downloaded, without express user command, so that if the user does enter a command, the response time is advantageously fast.

22 Claims, 11 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5572643 A

L16: Entry 5 of 5

File: USPT

Nov 5, 1996

US-PAT-NO: 5572643

DOCUMENT-IDENTIFIER: US 5572643 A

TITLE: Web browser with dynamic display of information objects during linking

DATE-ISSUED: November 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Judson, David H.	Dallas	TX	75230	N/A

APPL-NO: 8/ 543876

DATE FILED: October 19, 1995

INT-CL: [6] G06F 19/00

US-CL-ISSUED: 395/793

US-CL-CURRENT: 709/218; 379/88.13, 379/902, 707/513, 707/531

FIELD-OF-SEARCH: 395/155-161, 395/145-149, 380/4

REF-CITED:

U.S. PATENT DOCUMENTS



PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4782463</u>	November 1988	Sanders et al.	395/700
<u>4827508</u>	May 1989	Shear	380/4
<u>4833308</u>	May 1989	Humble	235/383
<u>4953209</u>	August 1990	Ryder, Sr. et al.	380/23
<u>5204947</u>	April 1993	Bernstein et al.	395/157
<u>5297249</u>	March 1994	Bernstein et al.	395/156
<u>5355472</u>	October 1994	Lewis	395/600
<u>5359708</u>	October 1994	Bloomer et al.	395/148
<u>5367621</u>	November 1994	Cohen et al.	395/154
<u>5367623</u>	November 1994	Iwai et al.	395/157
<u>5408659</u>	April 1995	Cavendish et al.	395/159 X
<u>5412772</u>	May 1995	Monson	395/161 X
<u>5428529</u>	June 1995	Hatrack et al.	395/145 X
<u>5438508</u>	August 1995	Wyman	380/4 X
<u>5442771</u>	August 1995	Flepp et al.	395/650
<u>5461667</u>	October 1995	Remillard	379/96
<u>5491820</u>	February 1996	Belove et al.	395/600
<u>5511160</u>	April 1996	Robson	395/162
<u>5515490</u>	May 1996	Buchanan et al.	395/154

## OTHER PUBLICATIONS

Pike et al., Using Mosaic, 1994, pp. 82-85, 222-223.  
 Baker, Hypertext Browsing on the Internet, UNIX Review, v. 12, No. 9, Sep. 1994, pp. 21-26.  
 DeVoney, Using PC DOS, 1986, p. 340, 1986.  
 SPRY, AIRMOS.HLP Windows Help File, Apr. 3, 1995, Browsing With Mosaic, The SPRY Mosaic Console.  
 Gunn, Power in Pictures, Computer Shopper, Nov. 1994, vol. 14 No. 11, pp. 598-600.  
 Michalski, Content in Context, RElease 1.0, vol. 94, No. 9, Sep. 27, 1994, pp. 1-13.  
 McArthur, World Wide Web & HTML, Dr. Dobb's Journal, Dec. 1994.  
 Davison, Coding With HTML Forms, Dr. Dobb's Journal, Jun. 1995, pp. 70-75, 106-109.  
 Grobe, Michael, "HTML Quick Reference" Oct. 11, 1995, Academic Computing Services, The University of Kansas.  
 Ayre, Rick and Don Willmott, "See the Sites Beyond Browsing" Oct. 10, 1995, PC Magazine, pp. 151-201.

ART-UNIT: 242

PRIMARY-EXAMINER: Zimmerman; Mark K.

ASSISTANT-EXAMINER: Fetting; Anton W.

ABSTRACT:

A method of browsing the Worldwide Web of the Internet using an HTML-compliant client supporting a graphical user interface and a browser. The method begins as a web page is being displayed on the graphical user interface, the web page having at least one link to a hypertext document preferably located at a remote server. In response to the user clicking on the link, the link is activated by the browser to thereby request downloading of the hypertext document from the remote server to the graphical user interface of the client. While the client waits for a reply and/or as the hypertext document is being downloaded, the browser displays one or more different types of informational messages to the user. Such messages include, for example, advertisements, notices, messages, copyright information and the like.

19 Claims, 8 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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